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Mar 28, 1995

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TITLE: Inducer for serum CSF activity, reducing side effects of cancer chemotherapy - is prepd. by using e.g. cationic ion exchange chromatography to separate fraction contg. oxidised glutathione from aq. extract of ginseng

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PRIORITY-DATA: 1993JP-0184404 (June 29, 1993)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> JP 07082167 A	March 28, 1995		006	A61K038/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 07082167A	June 29, 1993	1993JP-0184404	

INT-CL (IPC): A61 K 35/78; A61 K 38/00; B01 D 15/08

ABSTRACTED-PUB-NO: JP 07082167A

## BASIC-ABSTRACT:

Inducer comprises oxidised glutathione or a salt of it, or a fraction contg. oxidised glutathione sepd. from an aq. extract of ginseng.

Also claimed is the prodn. of the inducer by using at least one of cationic ion exchange chromatography, anionic ion exchange chromatography, gel filtration chromatography and reverse phase HPLC, to separate a fraction contg. oxidised glutathione from an aq. extract of ginseng.

USE/ADVANTAGE - The inducer is used as an agent for enhancing the CSF activity in serum in vivo, alleviating the side effects in cancer chemotherapy etc., and promotes the protective action in the living body. The inducer haematogenous functions.

In an example, Panax ginseng, C.A. Meyer, was cut into small pieces, and 10 kg of the pieces were extracted at room temp. under stirring with 70 l of distilled water and then filtered. Extn. and filtration were repeated several times. The filtrate was concentrated at 38-42 deg. C into 4 l of a concentrate. 10-times vol. methanol was added to the concentrate and the mixt. was allowed to stand overnight at room temp. The pptes. were filtered off, then dissolved in 2 l of distilled water and extracted 3 times with an equal vol. of aq. satd. n-butanol. The aq. phase was

concn. under reduced pressure to give 500 g water-soluble fraction. The fraction was fractionated through an ultrafiltration membrane and then applied to cationic ion exchange resin (Dowex 50 W-X1), anionic ion exchange resin (Q-Sepharose FF), gel filtration resin (Sephadex G-15) and reverse phase HPLC (C18 Bondapack). Analysis of the sample by reverse phase HPLC indicated only a single peak of the inducer for serum CSF activity.

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EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/8

DERWENT-CLASS: B04

CPI-CODES: B04-C01A; B10-B02D; B14-L06;

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